

WHAT IS CLAIMED IS:

1. A method of producing a centralized power distribution unit for a vehicular thin brushless motor wherein said centralized power distribution unit is formed into a ring configuration and can concentratedly distribute current to stator windings of the motor, the method comprising:

stamping out a conductive metal plate into a plurality of strips, the strips stamped out simultaneously by press molding;

bending the strips in a thickness direction into a substantially annular shape to obtain a plurality of bus bars in the form of rings, the rings being mutually different in diameter, the bus bars each having a terminal portion to be connected to a power source and one or more tabs to be connected respectively to one or more windings of the motor;

providing the bus bars correspondingly with phases of the motor;

stacking the strips in a radial direction of the centralized power distribution unit, mutually separated by a predetermined gap; and

covering the bus bars with a resin insulating layer.

2. A method of producing bus bars, comprising

stamping out a conductive metal plate into a plurality of strips, the strips stamped out simultaneously by press molding; and

bending the strips in a thickness direction to obtain a plurality of rings, the rings being mutually different in diameter.

3. The method of producing bus bars according to claim 2, wherein, in the step of stamping out, at least one of (a) a terminal portion and (b) one or more tabs are integrally stamped with a main body of the bus bar.

4. The method of producing bus bars according to claim 3, wherein, in the step of stamping out, the bus bars are stamped out in a state where the main bodies are laid out in

parallel, and in a state where both ends of the main bodies are substantially aligned with one another.

5. The method of producing bus bars according to claim 2, wherein, in the step of stamping out, a terminal portion and one or more tabs are integrally stamped with a main body of the bus bar.

6. The method of producing bus bars according to claim 5, wherein, in the step of stamping out, the terminal portion and the one or more tabs of a predetermined one of the bus bars are laid out to be directed to a center of a row of the bus bars, the predetermined one of the bus bars being positioned at an outermost side among the bus bars which are placed in parallel.

7. A method of producing a centralized power distribution unit wherein said centralized power distribution unit is formed into a ring configuration and can concentratedly distribute current to stator windings of a motor, the method comprising:

stamping out a conductive metal plate into a plurality of strips, the strips stamped out simultaneously by press molding;

bending the strips in a thickness direction to obtain a plurality of rings, the rings being mutually different in diameter; and

stacking the strips in a radial direction of the centralized power distribution unit mutually, separated by a predetermined gap.

8. The method according to claim 7, wherein each bus bar includes a terminal portion that connects to a power source, further comprising bending the terminal portion into a bent configuration.

9. The method according to claim 8, wherein bending at least one of the terminal portions comprises bending the terminal portion such that the at least one of the terminal portions includes a first section extending in a first direction that is a substantially radial

direction of the centralized power distribution unit, a second section extending in a second direction substantially perpendicular to the first direction, and a ramp section connecting the first and second sections and extending in a third direction that is different from the first and second directions.

10. The method according to claim 8, further comprising providing at least one slit in at least one of the terminal portions.

11. The method according to claim 10, further comprising a section of the at least one of the terminal portions by a sealing material, wherein the at least one slit is provided in the section covered by the sealing material.

12. The method according to claim 10, wherein the at least one slit extends in a longitudinal direction of the terminal portion.